

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): Combustion bowl (4, 4', 12, 16, 18-22) in the crown (1, 13) of a piston (2, 2', 14) for a diesel engine,

- having a ring-shaped cooling channel (9) disposed in the radially outer edge region of the piston (2, 2', 14) on the piston crown side,
- whereby the combustion bowl (4, 12, 16, 18-22) is disposed outside of the center relative to the longitudinal piston axis (3),

~~characterized in that~~ wherein

- an undercut (8, 8', 38) is formed into at least a part of the radially outer edge region of the combustion bowl (4, 12, 16, 18-22), to such an extent that the entire radially outer edge region of the combustion bowl (4, 12, 16, 18-22) is disposed sufficiently close to the cooling channel (9) for a cooling effect of the cooling channel (9) on the combustion bowl (4, 12, 16, 18-22).

Claim 2 (Currently Amended): Combustion bowl (4, 12, 16, 18-22) according to claim 1, ~~characterized by~~ comprising a circle-shaped bowl neck (5, 26).

Claim 3 (Currently Amended): Combustion bowl (4') according to claim 1, ~~characterized by~~ comprising an ovally shaped bowl neck (11).

Claim 4 (Currently Amended): Combustion bowl according to ~~one of the preceding claims~~ claim 1, ~~characterized in that~~ wherein a molded-on part (17) configured in hump-like manner is disposed in the center of the crown of the combustion bowl (16).

Claim 5 (Currently Amended): Combustion bowl (12, 16, 20, 21, 22) according to ~~one of the preceding claims~~ claim 1, ~~characterized by~~ comprising at least one radially outer edge region with undercut and at least one radially outer edge region (15, 25, 25', 29, 33) without undercut.

Claim 6 (Currently Amended): Combustion bowl (18 to 20) according to ~~one of the preceding claims~~ claim 1, ~~characterized~~ by comprising two regions (23, 24, 27, 28) shaped essentially like a circle segment, which lie opposite one another.

Claim 7 (Currently Amended): Combustion bowl (21, 22) according to claim ~~1-7~~ 1, ~~characterized by~~ comprising more than two regions (30-32, 34-36) shaped like a circle segment.

Claim 8 (Currently Amended): Combustion bowl (18-22) according to claim 6 ~~or 7~~, ~~characterized in that~~ wherein the regions (23, 24, 27, 28, 30-32, 34-36) shaped like a circle segment are machined with a transition into one another.

Claim 9 (Currently Amended): Combustion bowl (4, 12, 16, 18-22) according to ~~one of the preceding claims~~ claim 1, ~~characterized in that~~ wherein fuel is injected into the combustion bowl (4, 12, 16, 18-22) by way of injection nozzles, the bores of which are dimensioned and disposed in such a manner that the width and the orientation of the fuel jets are adapted to the local expanses of the related bowl regions.